金属皮膜固定抵抗器 EROタイプ

Metal Film Resistors

Type: **ERO**

■特 長

高信頼性……故障率水準はSレベル以上確保されてい

高性能………抵抗温度特性、電流雑音及び非直線性 が優れています

品質保証体制…3年間、原材料に至るまでのロット追跡 が可能です

堅牢な構造……自動挿入機による組立てに耐えうる機 械的強度を有しています

▶ ISO-9001認定品



Features

Uniform Quality

An exclusive automated process-developed, built. and used only by Matsushita and severe qualitycontrol system result uniform quality and consistent performance in reliability.

Reliability

Established the reliability worth 2123000000 component hours (0.001 % per 1000 hours) under the criteria of Matsushita Standards.

Proven Specifications

All performance specifications are based on extensive testing and massive field experience.

No Incipient Failure

100 % units may be free from incipient failure, because of our responsible screening of 100 % units by overload aging.

Tough Construction

The right, conformal structure and 100 % electrically welded leads, combining insulation, cap, leads, and ceramic materials provide exceptional strength, resistance to damage and freedom from jamming in high speed automatic insertion machines.

Durable Color Code and Insulative Coating

Baked-on color code and insulative coating paints are resistant to solvents, and also resist the abrasion and chipping associated with automatic handling.

Approved under the ISO-9001 system

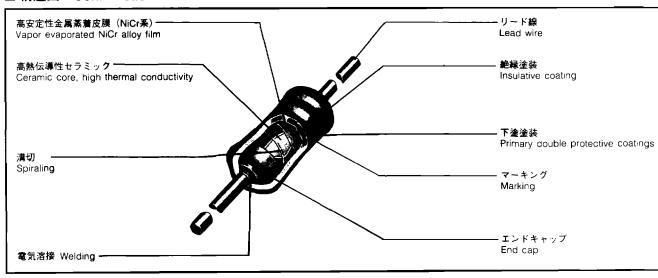
Conforming to

● IEC115-2, JIS C5724

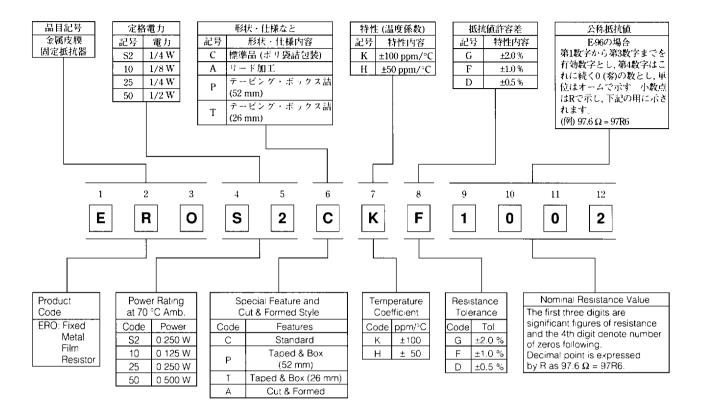
■ 適合規格

IEC115-2, JIS C5724

■ 構造図 Construction



■ 品番構成 **Explanation of Part Numbers**



■ 定格 Ratings

品 番 Part No.	定格電力 Power Rating at 70°C	最高使用 電圧* Maximum RCWV*	最高過負荷 電圧** Maximum Overload Voltage**	耐電圧 Dielectric Withstanding Voltage	抵抗温度 特性 T.C.R. (ppm/°C)	抵抗値 許容差 Resistance Tolerance (%)	抵抗値範囲 Resistance Range (Ω)	
							min.	max.
EROS2CK	0.250 (1/4 W)	250 V	500 V	300 V	± 100	G (±2) F (±1)	2.0 2.0	1.0 M 1.0 M
EROS2CH	0.250 (1/4 W)	250 V	500 V	300 V	± 50	F (±1) D (±0.5)	2.0 10.0	1.0 M 1.0 M
ERO10CK	0.125 (1/8 W)	150 V	300 V	300 V	± 100	G (±2) F (±1)	2.0 2.0	1.0 M 1.0 M
ERO10CH	0.125 (1/8 W)	150 V	300 V	300 V	± 50	F (±1) D (±0.5)	2.0 10.0	1.0 M 1.0 M
ERO25CK	0.250 (1/4 W)	250 V	500 V	500 V	±100	F (±1)	2.0	1.0 M
ERO25CH	0.250 (1/4 W)	250 V	500 V	500 V	± 50	F (±1) D (±0.5)	2.0 10.0	1.0 M 1.0 M
ERO50CK	0.500 (1/2 W)	350 V	700 V	700 V	± 100	F (±1)	20.0	2.2 M
ERO50CH	0.500 (1/2 W)	350 V	700 V	700 V	± 50	F (±1) D (±0.5)	20.0 49.9	1.0 M 1.0 M

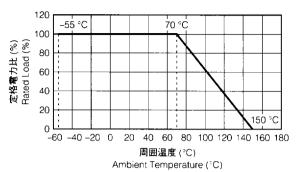
- * 定格電圧=V定格電力×公称抵抗値による算出値、又は表中の最高使 用電圧のいずれか小さい方がその定格電圧となります
- ** 短時間過負荷電圧=2.5×定格電圧による算出値、又は表中の最高過負 荷電圧のいずれか小さい方がその短時間過負荷試験電圧となります。
- * Rated Continuous Working Voltage (RCWV) shall be determined from RCWV= V Power Rating × Resistance Value, or maximum RCWV listed above, whichever less
- ** Short-time Overload Test Voltage (SOTV) shall be determined from SOTV=2.5 x Power Rating or max. Overload Voltage listed above whichever less

負荷軽減曲線

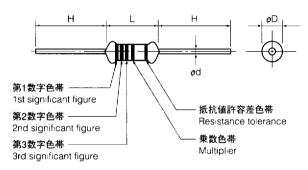
周囲温度70 ℃以上で使用されるときは、下図の負荷軽減曲線にしたがって定格電力を軽減してください。

Power Derating Curve

For resistors operated in ambient temperatures above 70 °C, power rating shall be derated in accordance with the figure below.



■ 形状寸法 Dimensions in mm (not to scale)



Dimensions (mm) 品 番 Weight Part No. L ϕD Н φd g/1000 pcs. 1.70:838 EROS2C 3.20±0 20 0.45=0.05 30 0±30 107 3.70±0 50 0.40±0.05 ERO10C 1.60=0.20 30 0±30 92 6.30±0 50 2.30=0.50 0.60±0.05 30.0±30 ERO25C 228 9.50±0 50 ERO50C $3.50^{\pm0.50}$ 0.60±0.05 30.0±3.3 381

△安全上のご注意

1. 定格電力と周囲温度

定格温度と周囲温度は規定の軽減曲線を越えたご使用をしないでください。

* 抵抗器の配置が密着する事による相互間の発熱の影響や隣接発熱部品の温度上昇を考慮の上、配置・取り付け等を行ってください。

2. 外部衝撃

自動実装時の機械的衝撃、あるいは実装後の基板の取扱いにより抵抗器本体の塗装にカケ・傷・剥がれが生じた場合初期の特性がでない場合があります。

3. 超音波洗浄

部品の共振などにより抵抗器のリード線が切断される場合がありますのでご確認の上使用ください。

4. パルス負荷

パルス負荷を印加する場合ピーク値を定格電圧以下としてください。

本カタログは部品単体での品質・性能を現わすものです。 品質保証については納入仕様書をお取り交わしください。 ご使用に際しては貴社製品に実装された状態で必ず評価、 確認を実施してください。

1. Rated Power and Ambient Temperature

Keep the rated power and ambient temperature within the specified derating curve.

* Place and fit resistors and other heating components on board, taking into consideration of temperature rise due to approaching of these components with each other.

2. External Shock

Mechanical shock during automatic mounting or handling of board after chip being mounted may cause break, flow or fall-off of paint film of resistor that may impair initial characteristics.

3. Ultrasonic Cleaning

Ultrasonic cleaning may cutlead wire due to resonance. Try and check before use.

4. Application of Pulse

When pulse is applied to resistor, the peak value of pulse shall be within rated voltage.

This catalog shows the quality and performance of a unit component. For quality assurance, exchange the delivery specification with us. Before adoption, be sure to evaluate and verify the product mounting it in your product.